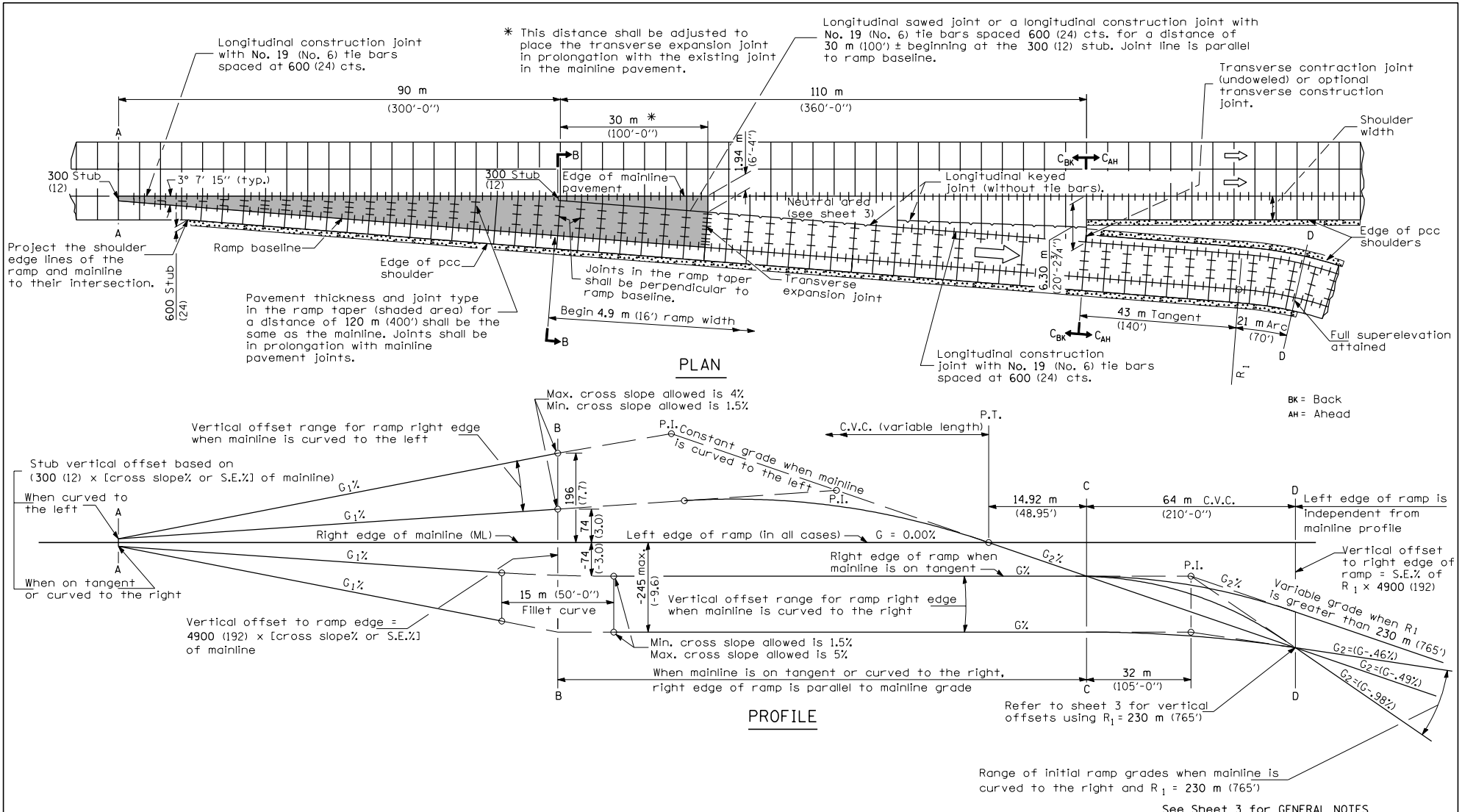

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ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2004
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ISSUED 1-1-97

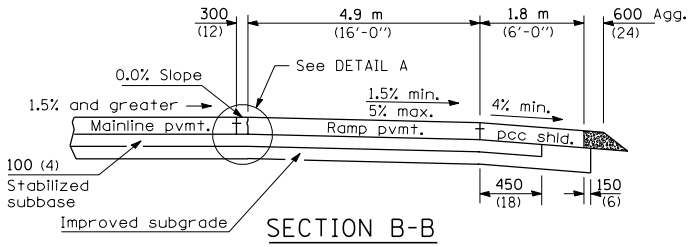
DATE	REVISIONS
1-1-04	Minor corrections
	of joint information.
1-1-03	Corrected stub location,
	title and minor errors.

EXIT RAMP TERMINAL

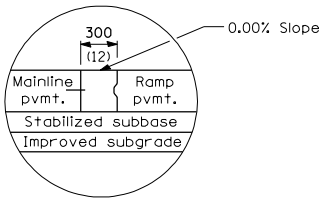
(JOINTED PCC RAMP PAVEMENT ADJACENT TO JOINTED PCC MAINLINE PAVEMENT)

(Sheet 1 of 3)

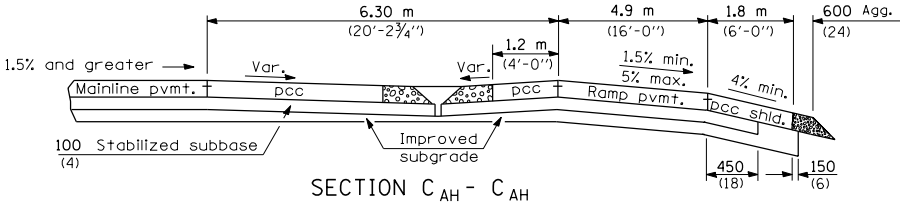
STANDARD 420301-03



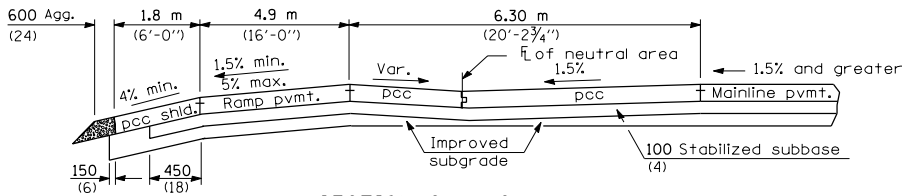
SECTION B-B



DETAIL A



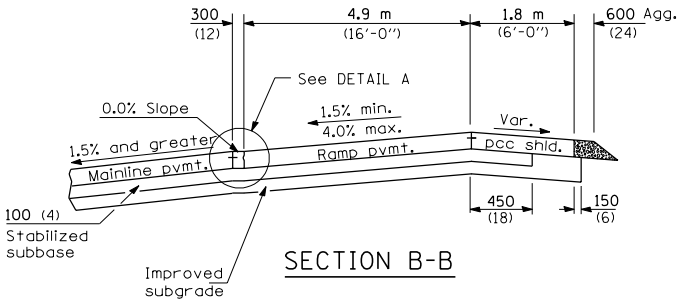
SECTION C_{AH} - C_{AH}



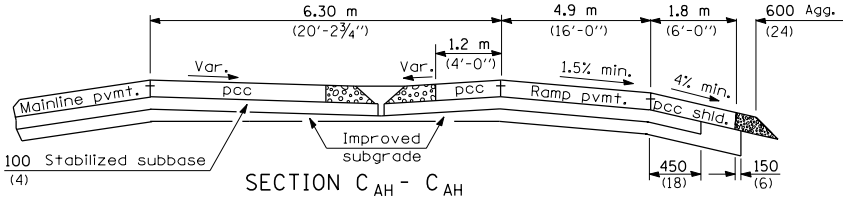
SECTION C_{BK} - C_{BK}

BK = Back
AH = Ahead

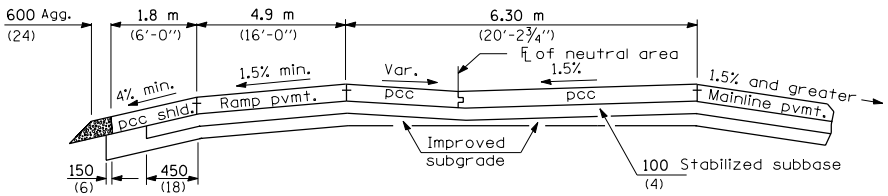
WHEN MAINLINE IS ON TANGENT OR CURVED TO THE RIGHT



SECTION B-B



SECTION C_{AH} - C_{AH}



SECTION C_{BK} - C_{BK}

See Sheet 3 for GENERAL NOTES

WHEN MAINLINE IS CURVED TO THE LEFT

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EXIT RAMP TERMINAL

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ADJACENT TO JOINTED PCC MAINLINE PAVEMENT)

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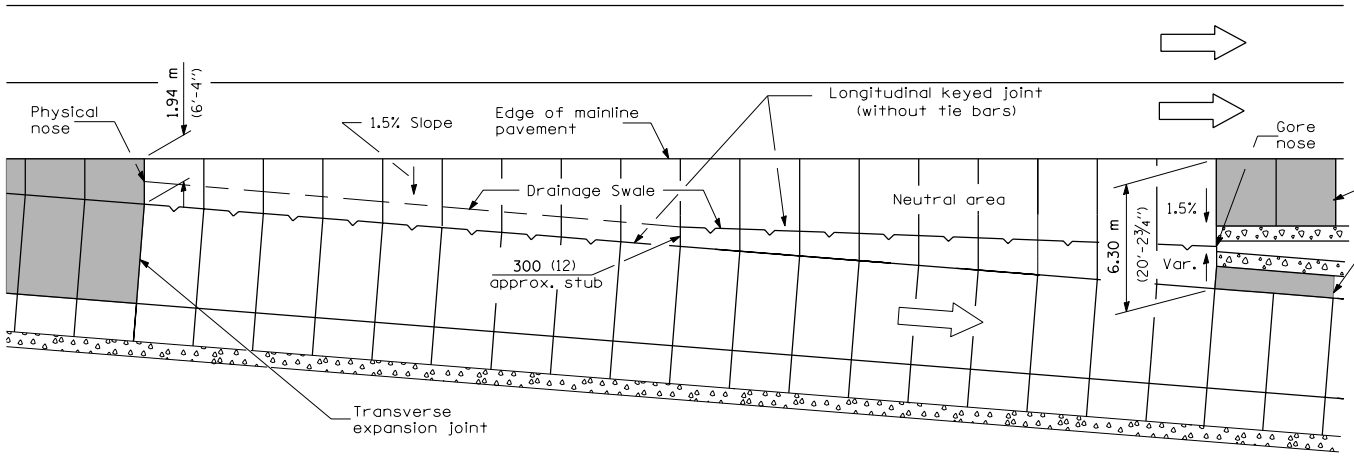

DETAILS FOR DRAINAGE IN NEUTRAL AREA

① Vertical offsets in mm for right edge of ramp, when R_1 = 230 m			
Sections	Mainline on Tangent	Mainline Curved Right	Mainline Curved Left
A	- 5	S.E.% ML x 300	S.E.% ML x 300 ②
B	- 74	S.E.% ML x 4900	S.E.% ML x 4900 ②
C	- 74	S.E. % ML x 4900	- 74
D	- 392	- 392	- 392

Vertical offsets in inches for right ① edge of ramp, when R_1 = 765'			
Sections	Mainline on Tangent	Mainline Curved Right	Mainline Curved Left
A	- 0.18	S.E. % ML x 12	S.E. % ML x 12 ②
B	- 3.0	S.E. % ML x 192	S.E. % ML x 192 ②
C	- 3.0	S.E. % ML x 192	- 3.0
D	- 15.4	- 15.4	- 15.4

① Vertical offset values are calculated and based on the right edge of mainline pavement at 0.0 % grade.

② The vertical offsets of these points are above the mainline pavement and lie on an upgrade in relationship to the mainline grade.

③ S.E.=Superelevation Rate

GENERAL NOTES

The initial ramp grade (G_2) is based on the line generated through the PI that is 32 m past Section C-C and the point created by the vertical offset at Section D-D.

See plans for actual grades.

All pavement joints shall be detailed as shown on Standards 420001 and 483001.

See Standard 483001 for ramp shoulder details.

In the neutral area, provide a swale and flush inlet to enhance drainage.

When using grades expressed in %, the grade values shall be divided by 100 to obtain vertical offsets.

Where an exit ramp terminal is proposed adjacent to a mainline horizontal curve, construct the edge of the terminal by using offset widths, and for the terminal segment downstream from Section C-C to R_1, construct the ramp as a 43 m tangent section.

All dimensions are in millimeters (inches) unless otherwise shown.

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